

Title (en)
VEHICLE HEAT EXCHANGER SYSTEM

Title (de)
FAHRZEUGWÄRMETAUSCHERSYSTEM

Title (fr)
SYSTÈME D'ÉCHANGEUR DE CHALEUR DE VÉHICULE

Publication
EP 3771644 A1 20210203 (EN)

Application
EP 20186964 A 20200721

Priority
US 201962879771 P 20190729

Abstract (en)
A vehicle is provided including a structure including a skin defining an outside surface exposed to ambient cooling flow and an inside surface. The structure includes a first structural member extending from the inside surface of the skin and a second structural member extending from the inside surface of the skin; and a thermal management system including a heat exchanger assembly positioned adjacent to, and in thermal communication with, the inside surface of the skin, the heat exchanger assembly positioned at least partially between the first and second structural members of the structure.

IPC 8 full level
B64D 13/08 (2006.01); **B64C 1/06** (2006.01); **B64C 1/12** (2006.01); **B64C 3/18** (2006.01); **B64C 3/26** (2006.01); **B64C 7/02** (2006.01); **B64D 13/00** (2006.01); **B64D 13/06** (2006.01); **B64D 29/00** (2006.01); **B64D 33/08** (2006.01)

CPC (source: CN EP US)
B64C 1/061 (2013.01 - CN EP US); **B64C 1/064** (2013.01 - CN EP US); **B64C 1/12** (2013.01 - EP); **B64C 1/34** (2013.01 - US); **B64C 3/185** (2013.01 - EP); **B64C 3/187** (2013.01 - EP); **B64C 3/26** (2013.01 - EP); **B64C 7/02** (2013.01 - EP); **B64D 13/006** (2013.01 - EP); **B64D 13/08** (2013.01 - EP); **B64D 29/00** (2013.01 - EP); **B64D 33/00** (2013.01 - CN); **B64D 33/08** (2013.01 - CN EP); **B64D 33/12** (2013.01 - US); **B64D 2013/0614** (2013.01 - EP); **B64D 2013/0629** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3771644 A1 20210203; CN 112298580 A 20210202; CN 112298580 B 20240917; US 11673682 B2 20230613; US 2021031937 A1 20210204; US 2023271714 A1 20230831

DOCDB simple family (application)
EP 20186964 A 20200721; CN 202010744842 A 20200729; US 202016941730 A 20200729; US 202318311985 A 20230504